

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE J		PAGE OF PAGES 1 29	
2. AMENDMENT/MODIFICATION NO. 0003		3. EFFECTIVE DATE 16-Aug-2002		4. REQUISITION/PURCHASE REQ. NO. W16ROE-2156-1458		5. PROJECT NO.(If applicable)	
6. ISSUED BY USA ENGINEER DISTRICT, NEW YORK ATTN: CENAN-CT ROOM 1843 26 FEDERAL PLAZA (DACA51) NEW YORK NY 10278-0090		CODE DACA51		7. ADMINISTERED BY (If other than item 6) See Item 6		CODE	
8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code)				X		9A. AMENDMENT OF SOLICITATION NO. DACA51-02-R-0017	
				X		9B. DATED (SEE ITEM 11) 03-Jul-2002	
						10A. MOD. OF CONTRACT/ORDER NO.	
						10B. DATED (SEE ITEM 13)	
CODE		FACILITY CODE					
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS							
<input checked="" type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offer <input checked="" type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offer must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended by one of the following methods: (a) By completing Items 8 and 15, and returning <u>1</u> copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.							
12. ACCOUNTING AND APPROPRIATION DATA (If required)							
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.							
A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.							
B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(B).							
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:							
D. OTHER (Specify type of modification and authority)							
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.							
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) The purpose of this amendment 0003 to solicitation DACA51-02-R-0017 is as follows: To incorporate General Revisions to Drawings and Specifications, to change the technical POC from Robert Philbrick to Fred Hand at (212) 264-9101, and to incorporate the latest wage determination. NOTE: Offerors must acknowledge receipt of this amendment by the date specified in the solicitation (or as amended) by one of the following methods: In the space provided in the SF 1442, by separate letter, by telegram, or by signing Block 15 below. FAILURE TO ACKNOWLEDGE AMENDMENTS BY THE DATE AND TIME SPECIFIED MAY RESULT IN REJECTION OF YOUR PROPOSAL IN ACCORDANCE WITH THE LATE OFFERS, LATE MODIFICATION OF OFFERS, OR LATE WITHDRAWAL OF OFFERS (FAR 14.305). As a result of this amendment, the Volume III, pricing proposal, due date changes from 20 August 2002 @ 1:00 PM to 23 August 2002 @ 1:00 PM. The due dates of the previous two volumes that were due on 12 August 2002 are not effected. Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.							
15A. NAME AND TITLE OF SIGNER (Type or print)				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)			
				TEL: _____ EMAIL: _____			
15B. CONTRACTOR/OFFEROR _____ (Signature of person authorized to sign)		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA BY _____ (Signature of Contracting Officer)		16C. DATE SIGNED 16-Aug-2002	

EXCEPTION TO SF 30
APPROVED BY OIRM 11-84

30-105-04

STANDARD FORM 30 (Rev. 10-83)
Prescribed by GSA
FAR (48 CFR) 53.243

A0003-CHANGES**GENERAL REVISIONS TO DRAWINGS AND SPECIFICATIONS FOR FY 02 C17 MAINTENANCE HANGAR AND AIRCRAFT MAINTENANCE SHOPS, McGUIRE AFB, NEW JERSEY – AMENDMENT #3 TO DACA51-02-R-0017****TO OFFERORS**

The following changes shall be made to the drawings and specifications.

GENERAL NOTE TO OFFERORS

It has come to our attention that the message that appears in part below had be sent to all entities registered under this solicitation on the New York District website:

*Attention: Contract Bid Manager for:
ARMY CORPS OF ENGINEERS
McGuire Air Force Base, NJ
DACA51-02-R-0017
C-17 Maintenance Hangar and Aircraft Maintenance Shops*

Please note that Fall Protection Systems, Inc. is the holder of U.S. Patents #D440,023 S and 6,269,904 B1, which cover the design and utilization of truss mounted rigid rail fall protection systems. We believe that we hold the exclusive rights to design and build the particular type of fall protection system in question. Simply stated, our company invented and patented this type of product.

The McGuire Air Force Base project DACA51-02-R-0017 has just come to our attention through a contractor's bid request. We wish to inform you at once of our patent protected product.

We certainly wish to bid the project, and we submit our bid as.....

Offerors are advised that it is not the Governments intention to restrict Offerors to the above-mentioned product or any one manufacturer and have taken action in this amendment to broaden the description of the fall arrest system to encompass all manufacturers of fall arrest systems that meet OSHA requirements to compete.

AMENDMENT 0002**BIDDER'S QUESTIONS AND GOVERNMENT REPLY**

1. Inquiry #1, Item g, Question 7: **CHANGE** "Government-furnished/Installed-installed" to "Government-furnished/Offeror-installed."
2. Inquiry #1, Item h, Question 8: **CHANGE** "Government-furnished/Installed-installed" to "Government-furnished/Offeror-installed."
3. Inquiry #3, Item j, Question 10: **ADD** the following Government response: "Comply with warranty requirements of Specifications Section 07413A, Paragraph 1.5."

4. Inquiry #4, Item z, Question 26: **DELETE** Government response in its entirety and **INSERT** the following:
“The following items will be carefully removed by the Offeror and delivered to a location on McGuire Air Force Base as directed by the Contracting Officer:

Pad-mount Transformer adjacent to Building 2227
Generator and Transfer Switch (in what drawing Sheet CD101 indicates as the Electrical Building)
Apron Lighting Pole and Fixtures adjacent to Building 2256”

DRAWINGS

- 1.) The following DRAWINGS have been **REISSUED:**
a.) Sheet CU101, Revision1
- 2.) The following DRAWINGS have been **REVISED but not REISSUED:**
a.) Sheet CD101, CIVIL DEMOLITION PLAN; **REPLACE** Demolition Note #5 “REMOVE EXISTING OVERHEAD ELECTRICAL LINES AND POLES” **WITH** “REMOVE EXISTING OVERHEAD ELECTRICAL LINES, POLES, AND POLE MOUNTED TRANSFORMERS”
b.) Sheet SF101, CRANE HOOK COVERAGE/FALL ARREST PLAN 1; **REPLACE** two notes “BOX TRUSS FALL ARREST SYSTEM WITH (3) RETRACTABLE LANYARDS” **WITH** “FALL ARREST SYSTEM WITH (3) RETRACTABLE LANYARDS”
c.) Sheet SF101, CRANE HOOK COVERAGE/FALL ARREST PLAN 1; **REPLACE** two notes “FALL ARREST BOX TRUSS SUPPORTED AT COLUMN” **WITH** “FALL ARREST SUPPORTED AT COLUMN”

SPECIFICATIONS

- 1.) The following SPECIFICATIONS SECTIONS have been **ADDED** in their entirety and are provided in their entirety herein:

Section 02821A FENCING

- 2.) The following SPECIFICATIONS SECTIONS have been **REVISED** as indicated below:

Section 01010 DESIGN REQUIREMENTS Paragraph 6.5 First paragraph, **REPLACE** third sentence “Fall arrest system (over the wings) is envisioned as a hung box truss 19 meters (clear) above finished floor.” **WITH** “Fall arrest system (over the wings) is 19 meters (clear) above finished floor.”

Section 00800 CONTRACT SPECIAL REQUIREMENTS Paragraph 18, SALVAGE MATERIALS AND EQUIPMENT; **DELETE** the words “Not Used” and **REPLACE** with the following”

“The Contractor shall maintain adequate property control records for all materials or equipment specified to be salvaged. These records may be in accordance with the Contractor’s system of property control, if approved by the property administrator. The Contractor shall be responsible for the adequate storage and protection of all salvaged materials and equipment and shall replace, at no cost to the Government, all salvage materials and equipment which are broken or damaged during salvage operations as the result of his negligence, or while in his care. (DoD FAR Supplement 52.236-7005). The Contractor shall deliver the below listed items to a location on McGuire AFB. The exact location that each item is to be delivered will be determined by the Contracting Officer or his representative at the time of their removal.

Pad-mount Transformer adjacent to Building 2227
Generator and Transfer Switch (in what drawing Sheet CD101 indicates as the Electrical Building)
Apron Lighting Pole and Fixtures adjacent to Building 2256”

(End of Summary of Changes)

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

SUMMARY OF CHANGES

SECTION 00800 - SPECIAL CONTRACT REQUIREMENTS

The following have been added by full text:

A0003 WAGE RATE CHANGES

GENERAL DECISION **NJ020002** 08/09/2002 NJ2

Date: August 9, 2002

General Decision Number **NJ020002**

Superseded General Decision No. NJ010002 sg

State: New Jersey

Construction Type:

BUILDING

HEAVY

HIGHWAY

County(ies):

ATLANTIC

CUMBERLAND

OCEAN

BURLINGTON

GLOUCESTER

SALEM

CAMDEN

MERCER

CAPE MAY

MONMOUTH

Building (excluding single family homes and apartments up to and including 4 stories), Heavy (does not include the counties of BURLINGTON, CAMDEN, GLOUCESTER, AND SALEM) Highway Construction Projects.

Modification Number Publication Date

0 03/01/2002

1 03/08/2002

2 03/15/2002

3 04/19/2002

4 04/26/2002

5 05/03/2002

6 05/10/2002

7 06/07/2002

8 07/05/2002

9 08/09/2002

COUNTY(ies):

ATLANTIC

CUMBERLAND

OCEAN

BURLINGTON

GLOUCESTER

SALEM

CAMDEN

MERCER

CAPE MAY

MONMOUTH

ASBE0014C 05/01/2000

Rates Fringes

BURLINGTON (townships of Edgewater Park, Lumberton, Sampton, Shamong, Tabernacle, Westhampton, & Willingboro), CAMDEN, & GLOUCESTER COUNTIES:

ASBESTOS WORKERS/INSULATORS

(includes the application of all insulating materials, protective coverings, coatings, and finishes to all types of mechanical systems. Also the application of firestopping material, openings and penetrations in walls, floors, ceilings, curtain walls and all lead abatement).

	28.12	13.74
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ASBE0042B 07/15/1999

Rates Fringes

SALEM COUNTY:

ASBESTOS WORKERS	23.99	9.89
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ASBE0085A 06/01/1994

Rates Fringes

ASBESTOS WORKERS/INSULATORS

Includes the application of all insulating materials, protective coverings, coatings, and finishes to all types of mechanical systems

ZONE 1	20.20	6.35
ZONE 2	18.30	6.825

ASBESTOS WORKERS ZONE DEFINITIONS

ZONE 1: ATLANTIC, BURLINGTON (Bass River and Washington Twps.); CAPE MAY, CUMBERLAND AND OCEAN (Eaglewood, Lacy, Little Egg Harbor, Long Beach, Ocean, Stafford, Tuckerton, and Union Twps.) COUNTIES.

ZONE 2: MONMOUTH (Remainder of County)

ASBE0089G 07/01/2002

Rates Fringes

BURLINGTON (includes the townships of Bordentown, Burlington, Chesterfield, Easthampton, Florence, Mansfield, Mount Holly, New Hanover, North Hanover, Pembereton, Roebling, Springfield, Wrightstown, & Woodland); MERCER COUNTY; MONMOUTH (includes the townships of Allentown, Blansingburg, Brielle, Englishtown, Farmingdale, Freehold, Howell, Manasquan, Millstone, Roosevelt, Sea Crit, South Belmar, Spring Lake Heights, Upper Freehold,

Wall, & West Belmar); & OCEAN (includes the townships of Beachwood, Berkeley, Breton Woods, Brick, Cederwood Park, Dover, Gillford Park, Island Beach, Island Heights, Jackson, Lakehurst, Lakewood, Manchester, New Egypt, Ocean Gate, Pine Beach, Plumstead, South Toms River & Toms River) COUNTIES:

ASBESTOS WORKERS/INSULATORS

Includes the application of all insulating materials, protective coverings, coatings, and finishes to all types of mechanical systems

29.78	15.97
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BOIL0028C 01/01/2002

	Rates	Fringes
BOILERMAKERS	32.03	44%+4.61

BRNJ0005A 11/01/2000

	Rates	Fringes
BRICKLAYERS, STONEMASONS, MARBLE MASONS, CEMENT MASONS, (Excludes Building Construction for Mercer County), PLASTERERS, TILE LAYERS, & TERRAZZO WORKERS	27.85	12.70

CARP0031B 05/01/2002

	Rates	Fringes
MERCER COUNTY (Remainder)		
CARPENTERS & INSULATORS	30.00	12.90
MILLWRIGHTS	30.00	12.90

CARP0454B 07/01/2001

	Rates	Fringes
DOCK BUILDERS & PILEDRIVERMEN	27.45	16.79+A

FOOTNOTE:

A. PAID HOLIDAYS: New Year's Day, Washington's Birthday, Memorial Day, Independence Day, Labor Day, Veteran's Day, Presidential Election Day, and Thanksgiving Day; provided employee works any of the 3 days in the 5-day work week preceeding the holiday and the first work day after the holiday.

CARP0623A 05/01/2002

	Rates	Fringes
ATLANTIC, BURLINGTON, CAMDEN, CAPE MAY, CUMBERLAND, GLOUCESTER AND SALEM COUNTIES		

CARPENTERS, INSULATORS, MILLWRIGHTS

AND SOFT FLOOR LAYERS	30.00	12.90
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CARP0781A 05/01/2002

Rates	Fringes
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MERCER COUNTY (Beginning from the present Post Office in Lawrenceville to a point Northward through the present "Radio Site" to the junction of Rosedale Road and Read's Mill Road to the junction of Pennington and Mount Rose Road to the Somerset County line, again starting at the present Post Office in Lawrenceville and Eastward to the junction of Brunswick Pike and Delaware and Raritan Canal Bridge taking the center of the Road to CLarksville then South on Providence Line Road to the Pennsylvania Railroad then East on Dutch Neck North to Grover's Mills to the Middlesex County Line)

CARPENTERS	30.00	12.90
MILLWRIGHTS	30.00	12.90

CARP0999B 12/03/1994

Rates	Fringes
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CAMDEN, GLOUCESTER AND SALEM COUNTIES

TERRAZZO FINISHERS	12.93	5.05
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CARP0999C 12/03/1994

Rates	Fringes
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ATLANTIC AND MONMOUTH COUNTIES:

TILE FINISHERS	8.45	13%
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CARP0999D 12/03/1994

Rates	Fringes
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CAMDEN, GLOUCESTER AND SALEM COUNTIES

TILE FINISHERS	12.72	5.05
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CARP0999E 12/03/1994

Rates	Fringes
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CAMDEN, GLOUCESTER AND SALEM COUNTIES

MARBLE FINISHERS	12.95	5.05
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CARP1456G 05/01/2001

Rates	Fringes
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DIVERS	37.13	23.56
DIVER TENDERS	27.67	23.56

CARP1456H 05/01/2001

	Rates	Fringes
MERCER AND MONMOUTH COUNTIES		
DOCK BUILDERS & PILEDRIVERMEN	30.39	23.56

CARP2018A 05/01/2002		
	Rates	Fringes
OCEAN COUNTY		
CARPENTERS	30.00	12.90
MILLWRIGHTS	30.00	12.90

CARP2212B 05/01/2002		
	Rates	Fringes
BURLINGTON, MERCER, MONMOUTH AND OCEAN COUNTIES		
SOFT FLOOR LAYERS	30.00	12.90

CARP2250A 05/01/2002		
	Rates	Fringes
MONMOUTH COUNTY		
CARPENTERS	30.00	12.90
MILLWRIGHTS	30.00	12.90

ELEC0269D 10/01/2000		
	Rates	Fringes
BURLINGTON (Area North of a line following the West and South limits of Burlington Borough from the Delaware River in a Southeasterly direction to the Burlington - Mt Holly Road, South-Southeast along this Road to and including the Town of Mount Holly, East along the Pennsylvania Railroad to and including New Lisbon and continuing along the Pennsylvania Railroad to Ocean County Line), AND MERCER COUNTIES		

LINE CONSTRUCTION (EXCEPT RAILROAD WORK):

Linemen, Cable Splicers, Equipment Operators and Technicians	33.08	6.25+29%
Truck Drivers, Groundmen and Winch Operators	26.46	6.25+29%

ELEC0269E 04/01/2002		
	Rates	Fringes
BURLINGTON COUNTY (Area North of a line following the West and		

South limits of Burlington Borough from the Delaware River in a Southeasterly direction to the Burlington - Mount Holly Road, South-Southeast along this road to and including the Town of Mount Holly, East along the Pennsylvania Railroad to and including New Lisbon and continuiong along the Pennsylvania

Railroad to the Ocean County Line) AND MERCER COUNTIES

ELECTRICIANS & CABLE SPLICERS	34.84	47.3%+.25
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ELEC0351A 10/01/2001

Rates	Fringes
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ATLANTIC; BURLINGTON (Edgewater park, Delanco, Delran, Cinnaminson, Moorestown, Mount Laurel, Wilingsboro, Hainesport, Lumberton, Medford, Evesham Townships; and the portion of Shamong, Tabernacle, and Woodland Townships North of the Central Railroad of New Jersey Line; and the portion of Burlington, Westhampton, Easthampton, South Hampton and Pemberton Townships South of a line starting at the Delaware River and following the Southern boundary of Burlington Borough to the Burlington - Mount Holly Road, along this road to Mount Holly around but excluding Mount Holly to the Pennsylvania Railroad along the Pennsylvania Line through, but excluding, Pemberton, through but excluding New Lisbon to the Ocean County line and that portion south of the Central Railroad of New Jersey line running through Chatsworth); CAMDEN; CAPE MAY; CUMBERLAND; GLOUCESTER; and SALEM COUNTIES:

ELECTRICIANS & CABLE SPLICERS	32.89	51.05%+.20
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ELEC0351C 10/01/2001

Rates	Fringes
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ATLANTIC; BURLINGTON (Edgewater park, Delanco, Delran, Cinnaminson, Moorestown, Mount Laurel, Wilingsboro, Hainesport, Lumberton, Medford, Evesham Townships; and the portion of Shamong, Tabernacle, and Woodland Townships North of the Central Railroad of New Jersey Line; and the portion of Burlington, Westhampton, Easthampton, South Hampton and Pemberton Townships South of a line starting at the Delaware River and following the Southern boundary of Burlington Borough to the Burlington - Mount Holly Road, along this road to Mount Holly around but excluding Mount Holly to the Pennsylvania Railroad along the Pennsylvania Line through, but excluding, Pemberton, through but excluding New Lisbon to the Ocean County line and that portion south of the Central Railroad of New Jersey line running through Chatsworth); CAMDEN; CAPE MAY; CUMBERLAND; GLOUCESTER; and SALEM COUNTIES:

LINEMAN, HEAVY EQUIPMENT OPERATOR, & CABLE SPLICERS	32.89	52.05%
GROUNDMAN	27.95	52.05%

ELEC0400A 06/03/2002

Rates	Fringes
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MONMOUTH AND OCEAN COUNTIES

ELECTRICIANS & CABLE SPLICERS	36.01	40.75%
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ELEC0400B 06/02/1997

Rates Fringes

MONMOUTH AND OCEAN COUNTIES

LINE CONSTRUCTION (Excluding Railroad construction):

Lineman, Equipment Operator, and Cable Splicer	28.96	18.75%+5.83
Groundman	27.01	18.75%+5.83

ELEC0999A 12/03/1994

Rates Fringes

BURLINGTON, CAMDEN, CAPE MAY, CUMBERLAND, GLOUCESTER, MONMOUTH,
OCEAN AND SALEM COUNTIES:

LINE CONSTRUCTION (RAILROAD ONLY):

Linemen	16.96	25%
Line Equipment Operator	16.20	25%
Groundman Winch Operator	13.07	25%
Groundman	11.06	25%
Dynamite Man	14.20	25%
Street Light Mechanic	12.97	25%
Line Equipment Mechanic	12.90	25%

ELEV0005C 06/19/2000

	Rates	Fringes
ELEVATOR MECHANICS	33.395	6.935+A

FOOTNOTE:

- A. PAID HOLIDAYS: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day
 PAID VACATION: Employer contributes 4% of basic hourly rate as vacation pay credit for 5 years or more of service, and 2% for 6 months to 5 years of service.
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ENGI0825B 07/01/2002

Rates Fringes

POWER EQUIPMENT OPERATORS:
 BUILDING CONSTRUCTION PROJECTS; HEAVY;
 HIGHWAY; ROAD; STREET AND SEWER PROJECTS:

GROUP 1	32.87	17.15+A+B
GROUP 2	31.28	17.15+A+B
GROUP 3	29.37	17.15+A+B
GROUP 4	27.74	17.15+A+B
GROUP 5	26.03	17.15+A+B
GROUP 6	34.59	17.15+A+B

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Autograde - Combination Subgrader; base metal spreader and 7 base trimmer (CMI and similar types); autograde placer, trimmer, spreader combination (CMI and similar types); autograde slipform paver (CMI and similar types); backhoe; central power

plants (all types); concrete paving machines; cranes (all types, including overhead and straddle traveling type); cranes; gantry; derricks (land or floating); drillmaster, quarrymaster (down the hole drill) rotary drill; self propelled hydraulic drill; self-powered drill; dragline; elevator graders; front end loaders (5 yds. and over); gradalls; grader; raygo; locomotive (large); mucking machines; pavement and concrete breaker, i.e.; superhammer and hoe ram; pile driver; length of boom including length of leads, shall determine premium rate applicable; roadway surface grinder; scooper (loader and shovel); shovels; tree chopper with boom; trench machines.

GROUP 2: "A" frame; backhoe (combination); boom attachment on loaders (rate based on size of bucket) not applicable to pipehook, boring and drilling machines; brush chopper; shredder and tree shredder; tree shearer; cableways; carryalls; concrete pump; concrete pumping system; pumpcrete and similar types; conveyors, 125 ft. and over; drill doctor including dust collector, maintenance); front end loaders (2 yds. but less than 5 yds.); graders (finisher); groove cutting machine (ride on type); header planer; hoists; (all types hoists, shall also include steam, gas, diesel, electric, air hydraulic, single and double drum, concrete brick shaft caisson, snorkel roof, and/or any other similar type hoisting machines, portable or stationary, except Chicago boom type); hoists (Chicago boom type); hydraulic cranes, 10 tons and under, hydro-axle; jacks screw air hydraulic power operated unit or console type (not hand jack or pile load test type); log skidder; pans; pavers (all concrete; pumpcrete machines; squeezeconcrete and concrete pumping (regardless of size); scrapers; side booms; straddle carrier; ross and similar types; winch truck (hoisting).

GROUP 3: Asphalt curbing machine; asphalt plant engineer; asphalt spreader; autograder tube finisher and texturing machine (CMI and similar types); autograde curecrete machine (CMI and similar types); autograde curb trimmer and sidewalk; shoulder; slipform (CMI and similar types); bar bending machines (power); batchers; batching plant and crusher on side; belt conveyor systems; boom type skimmer machines, bridge deck finisher; bulldozers (all); car dumpers (railroad); compressor and blower type units (used independently or mounted on dual purposes trucks, on job site or in conjunction with job site in loading and unloading of concrete, cement, fly ash, instantcrete, or similar type materials); compressor (2 or 3) (battery); concrete finishing machines; concrete saws and cutters (ride on type); concrete spreaders; hetzel; rexomatic and similar types; concrete vibrators, conveyors; under 125 ft.; crushing machines; ditching machine; small (ditchwitch or similar type); dope pots (mechanical with or without pump); dumpsters elevator; fireman; fork lifts (economobile; lull and similar types of equipment); front end loaders (1 yd. and over but less than 2 yds.). generators (2 OR 3) in battery; giraffe grinders; graders and

motor patrols; gunnite machines (excluding nozzle); hammer vibratory (in conjunction with generator); hoist (roof, tugger,

aerial platform hoist and house cars); hoppers; hopper doors (power operated); ladders (motorized); laddervator; locomotive; dinky type; maintenance; utility man; mechanics; mixers (except paving mixers); motor patrols and graders; pavement breakers, small; self-propelled ride on type (also maintaining compressor or hydraulic unit); pavement breaker; truck mounted; pipe bending machine (power); roller; black top; scales; power; seaman pulverizing mixer; shoulder widener; silos; skimmer machines (boom type); steel cutting machine; services and maintaining tractors; tug captain; vibrating plants (used in conjunction with unloading); welder and repair mechanics, concrete cleaning/decontamination machine operator, directional boring machine, heavy equipment robotics operator/technician, master environmental maintenance technician, ultra high pressure waterjet cutting tool system operator/maintenance technician, vacuum blasting machine operator/maintenance technician.

GROUP 4: Brooms and sweepers, chippers, compressor (single), concrete spreaders (small type), conveyor loaders (not including elevator graders), engines, large diesel (1620 H.P.) and staging pump, farm tractors; fertilizing equipment (operation and maintenance) fine grade machine (small type); form line graders (small type); front loader (under 1 yd.); generator (single); grease, gas, fuel and oil supply trucks; heaters (nelson or other type including propane, natural gas or flow-type units); lights; portable generating light plants; mixers; concrete small; mulching equipment (operation and maintenance) pumps (4 inch suction and over including submersible pumps); pumps (2 or less than 4" suction and over including submersible pumps); pumps (diesel engine and hydraulic) immaterial of power road finishing machines (small type); rollers; grade; fill or stone base; seeding equipment (operation and maintenance of); sprinkler and water pump trucks steam jennies and boilers, stone spreader; tamping machines; vibrating ride-on; temporary heating plant (nelson or other type, including propane, natural gas or flow type units); water and sprinkler trucks; welding machines (gas, diesel, and/or electric converters of Any type, single; two or three in a battery); welding systems, multiple (rectifier transformer type); wellpoint systems.

GROUP 5: Oiler.

GROUP 6: Helicopter Pilot.

FOOTNOTES:

- A. PAID HOLIDAYS: New Year's Day; Washington'd Birthday, Memorial Day; Independence Day; Labor Day, Veteran's Day, Thanksgiving Day, and Christmas Day
- B. Employee receives 20% Premium Pay for Hazardous Waste Work.

ENGI0825C 07/01/2002

Rates Fringes

POWER EQUIPMENT OPERATORS

TANK ERECTION:

GROUP 1	35.36	17.15+A+B
GROUP 2	34.52	17.15+A+B
GROUP 3	36.50	17.15+A+B
GROUP 4	32.43	17.15+A+B
GROUP 5	27.22	17.15+A+B

FOOTNOTES:

- A. PAID HOLIDAYS: New Year's Day; Washington's Birthday
Memorial Day; Independence Day; Labor Day; Veteran's Day,
Thanksgiving Day; and Christmas Day.
- B. Employee receives 20% premium pay for hazardous waste work.

TANK ERECTION CLASSIFICATIONS

GROUP 1: Operating Engineers--on all Cranes, derricks, etc.
with booms including jib 140 ft. or more above the ground.

GROUP 2: Operating Engineers--on all equipment, including
cranes derricks, etc. with booms including jib, less than 140
ft. above the ground.

GROUP 3: Helicopters--Pilot.

GROUP 4: Air compressors, welding machines and generators (gas,
diesel, or electrical driven equipment and sources of power from
a permanent plant, i.e., steam, compressed air, hydraulic or
other power, for the operating of any machine or automatic tools
used in the erection, alteration, repair and dismantling of
tanks and any and all "DUAL PURPOSE" trucks used on the
construction job site.

GROUP 5: Oiler.

ENGI0825D 07/01/2002

Rates Fringes

POWER EQUIPMENT OPERATORS:
[STEEL ERECTION]:

GROUP 1	34.64	17.15+A+B
GROUP 2	34.73	17.15+A+B
GROUP 3	32.34	17.15+A+B
GROUP 4	29.78	17.15+A+B
GROUP 5	28.25	17.15+A+B
GROUP 6	26.49	17.15+A+B
GROUP 7	37.00	17.15+A+B

FOOTNOTES:

- A. PAID HOLIDAYS: New Year's Day, Washington's Birthday,
Memorial Day, Independence Day, Labor Day, Veteran's Day,
Thanksgiving Day, and Christmas Day.
- B. Employees receive 20% premium pay for hazardous waste work.

POWER EQUIPMENT OPERATORS CLASSIFICATIONS [STEEL ERECTION]

GROUP 1: Cranes - (all cranes, land or floating with booms including job 140 ft. and over, above ground); derricks-(all derricks, land or floating with boom including jib 140 ft. and over, above ground).

GROUP 2: Cranes - (all cranes, land or floating with booms including jib less than 140 ft. above ground); derricks (all derricks, land or floating with booms including jib, less than 140 ft. above ground).

GROUP 3: "A" frame; cherry pickers 10 tons and under; hoists; all types hoists shall also include steam, gas, diesel, electric, air hydraulic, single and double drum, concrete, brick shaft caisson, or any other similar type hoisting machines, portable or stationary, except Chicago boom type; jacks-screw air hydraulic power operated unit console type (not hand jack or pile load test type) side booms.

GROUP 4: Aerial platform used hoist; compressor, 2 or 3 in battery; elevators or house cars; conveyors and tugger hoists; fireman; forklift; generators, 2 or 3 maintenance-utility man; rod bending machine (power); welding machines--(gas or electric, 2 or 3 in battery, including diesels); captain power boats; tug master power boats.

GROUP 5: Compressor, single, welding machine, single, gas, electric converters of any type, diesel; welding system multiple (rectifier transformer type); generator, single.

GROUP 6: Oiler staddle carrier.

GROUP 7: Helicopter pilot.

ENGI0825E 07/01/2002

Rates Fringes

POWER EQUIPMENT OPERATORS:

OILOSTATIC MAINLINES & TRANSPORTATION PIPELINES:

GROUP 1	33.50	17.15+A+B
GROUP 2	32.85	17.15+A+B
GROUP 3	29.71	17.15+A+B
GROUP 4	28.31	17.15+A+B
GROUP 5	26.49	17.15+A+B
GROUP 6	35.43	17.15+A+B

FOOTNOTES:

A. PAID HOLIDAYS: New Year's Day; Washington's Birthday, Memorial Day; Independence Day; Labor Day; Veteran's Day,

Thanksgiving Day; and Christmas Day

B. Employee receives 20% premium pay for hazardous waste work.

OILOSTATIC MAINLINES AND TRANSPORTATION PIPE LINES CLASSIFICATIONS

GROUP 1: Backhoe; cranes (all types); draglines; front-end loaders (5 yds. and over); gradalls; scooper (loader and shovel); koehring and trench machines.

GROUP 2: "A" frame; backhoe (combination hoe loader); boring and drilling machines; ditching machine, small; ditchwitch or similar type; fork lifts; front end loaders (2 yds and over but less than 5 yds.); graders, finish (fine); hydraulic cranes, 10 tons and under (over 10 tons - crane rate applies); side booms; and winch trucks (hoisting).

GROUP 3: Backfiller; brooms and sweepers; bulldozers; compressors (2 or 3 in battery); front-end loaders (under 2 yds.); generators; giraffe grinders; graders and motor patrols; mechanic; pipe bending machine (power); tractors; water and sprinkler trucks, welder and repair mechanic.

GROUP 4: Compressor (single); dope pots (mechanical with or without pump); dust collectors; farm tractors; pumps (4 in. suction and over); pumps (2 or less than 4 in. suction); pumps; diesel engine and hydraulic (immaterial or power); welding machines; gas or electric converters of any type, single; welding machines, gas or electric converters of any type, 2 or 3 in battery multiple welders; wellpoint systems (including installation and maintenance).

GROUP 5: Oiler, grease, gas, fuel and supply trucks and tire repair and maintenance.

GROUP 6: Helicopter-pilot.

IRON0011B 07/01/2001

	Rates	Fringes
MONMOUTH AND OCEAN COUNTIES		

IRONWORKERS:

Structural & Ornamental	28.28	23.15
Reinforcing	26.38	23.15

IRON0068A 07/01/2002

	Rates	Fringes
BURLINGTON (Remainder), MERCER, MONMOUTH (South half), AND OCEAN (Middle third) COUNTIES		

IRONWORKERS:

Structual, Ornamental	27.76	22.35
Reinforcing (Concrete Rods)	25.76	22.35

IRON0350A 07/01/2002

Rates Fringes

ATLANTIC, CAPE MAY, CUMBERLAND (Area East of a line drawn from Delaware Bay through the town of Cedarsville and upwards to the point where the county lines of Gloucester, Cumberland, and Atlantic meet), AND OCEAN (Remainder) COUNTIES

IRONWORKERS:

BUILDING CONSTRUCTION:

Structural & Precast	28.70	19.35
Reinforced Concrete	27.70	19.35
Fencing, Graudrail, Erectors, Windows	24.85	19.35

HIGHWAY CONSTRUCTION:

Reinforced Concrete	25.40	19.35
Structural & Precast	27.75	19.35

IRON0399A 07/01/2002

Rates Fringes

BURLINGTON (Southern portion up to but not including Lumberton and Chatsworth Twps.), CAMDEN, CUMBERLAND (Remainder), GLOUCESTER, AND SALEM COUNTIES

IRONWORKERS:

Structural, Ornamental, and Reinforcing	31.35	14.20
Hazardous work	34.35	14.20

LABO0172A 03/01/2002

Rates Fringes

ATLANTIC, BURLINGTON, CAMDEN, CAPE MAY, CUMBERLAND, GLOUCESTER, MERCER, OCEAN AND SALEM COUNTIES

LABORERS:

GROUP 1	24.55	11.20+A
GROUP 2	24.75	11.20+A
GROUP 3	25.05	11.20+A
GROUP 4	25.25	11.20+A
GROUP 5	25.50	11.20+A
GROUP 6	29.05	11.20+A
GROUP 7	27.55	11.20+A

FOOTNOTE:

A. PAID HOLIDAYS: New Year's Day, Washington's Birthday, Memorial Day, Independence Day; Labor Day, Veteran's Day, Presidential Election Day, Thanksgiving Day, and Christmas Day, provided the employee works 3 days for the same Employer within a period of ten working days consisting of five working days before and five working days after the

day upon which the holiday falls or is observed.

LABORERS CLASSIFICATIONS

GROUP 1: Common laborers, landscape laborers, railroad track laborers, flagmen, salamander tenders, pitman, dumpman, waterproofing laborers, rakers and tampers on cold patch work, and wrapping and coating of all pipes.

GROUP 2: Powder carrier, magazine tender, and signalman.

GROUP 3: Sewer pipe, laser men, conduit and duct line layer, power tool operator, jack hammer, chipping hammer, pavement breaker, power buggy, concrete cutter, asphalt cutter, sheet hammer and tree cutter operators, sandblasting cutting, burning and such other power tools used to perform work usually done manually by laborers.

GROUP 4: Wagon drill operator, timberman and drill master.

GROUP 5: Finisher, manhole, catch basin or inlet builder, form setter, rammer, paver, gunite nozzleman and stonecutter.

GROUP 6: Blaster.

GROUP 7: Hazardous waste laborer.(Excludes asbestos work).

LABO0172B 03/01/2000

	Rates	Fringes
LABORERS; FREE AIR TUNNEL:		
GROUP 1	27.35	10.05+A
GROUP 2	23.95	10.05+A
GROUP 3	23.80	10.05+A
GROUP 4	23.30	10.05+A

FOOTNOTE:

A. PAID HOLIDAYS: New Year's Day, Washington's Birthday, Memorial Day; Independence Day, Labor Day, Presidential Election Day, provided the employee works 3 days for the same Employer within a period of ten working days consisting of five working days before and five working days after the day upon which the holiday falls or is observed.

LABORERS; FREE AIR TUNNEL CLASSIFICATIONS

GROUP 1: Blasterers.

GROUP 2: Skilled men (including miners, drill runners, iron men, maintenance men, conveyor men, safety miners, riggers, block layers, cement finishers, rod men, caulkers, powder carriers, all other skilled men).

GROUP 3: Semi-skilled men (including chuck tenders, track men, nippers, brakemen, derail men, cable men, hose men, grout men, gravel men, form men, bell or signal men (top or bottom), form workers and movers, concrete workers, shaft men, tunnel laborers, all other semi-skilled).

GROUP 4: All others (including powder watchmen, change house attendants, top laborers).

LABO0172C 03/01/2000

Rates Fringes

ATLANTIC, BURLINGTON, CAMDEN, CAPE MAY, CUMBERLAND, GLOUCESTER, MERCER, MONMOUTH, OCEAN, SALEM, AND MIDDLESEX (Southern half) COUNTIES

LABORERS - ASPHALT CONSTRUCTION:

STREET:

Head Rakers	22.05	11.70+A
Rakers & Screed Men	21.90	11.70+A
Tampers, Smothers, Kettlemen, Painters, Shovelers and Roller Boys	21.65	11.70+A

PLANT:

Scale Mixers & Burner Men	21.90	11.70+A
Feeders and Dust Men	21.65	11.70+A

FOOTNOTE:

- A. PAID HOLIDAYS: New Year's Day, Washington's Birthday, Memorial Day; Independence Day; Labor Day; Veteran's Day, Presidential Election Day, Thanksgiving Day, and Christmas Day provided The Employee works 3 days for same employer within a period of ten working days consisting of five working days before and five working days after the day upon which the holiday falls or is observed.

LABO0222A 05/01/2001

Rates Fringes

BURLINGTON (Twps. of Cinnaminson, Delance, Delran, East Hampton, Edgewater Park, Evesham, Hainesport, Lumberton, Medford, Moorestown, Mount Laurel, Pemberton, Shamong, South Hampton, Tabernacle, West Hampton, Willingsboro and Woodland); CAMDEN; CUMBERLAND; GLOUCESTER; AND SALEM COUNTIES

LABORERS (BUILDING CONSTRUCTION):

CLASS A	22.45	11.25
CLASS B	21.95	11.25
CLASS C	18.66	11.25

LABORERS CLASSIFICATIONS (BUILDING CONSTRUCTION)

CLASS A: Jack Hammer, Tamper, Motorized Tampers and Compactors,

Street Cleaning Machines, Scaffold Builder, Hydro,
Demolition Equipment, All types of Motorized Fork Lifts
Riding Motor Buggy Operator, Bobcat Operator, Mortar
Man, Burners, Nozzle Man on Gunite work.

CLASS B: All laborers not listed in Class A or C.

CLASS C: Laborers doing Janitorial-type light clean up work
associated with the turnover of the project to the owner
All Flagman, and those manning temporary heat of all
types.

LABO0415A 05/01/2001

Rates Fringes

ATLANTIC; BURLINGTON (Twps. of Bass River and Washington); CAPE
MAY; CUMBERLAND (Twps. of Commercial, Dawne, Fairfield, Lawrence,
Maurice, and Millville); AND OCEAN (That portion up to and
including Lacy Twp.) COUNTIES

LABORERS (BUILDING CONSTRUCTION):

CLASS A	22.45	11.25
CLASS B	21.95	11.25
CLASS C	18.66	11.25

LABORERS CLASSIFICATIONS (BUILDING CONSTRUCTION)

CLASS A: Jack Hammer, Tamper, Motorized Tampers and Compactors,
Street Cleaning Machines, Scaffold Builder, Hydro
Demolition Equipment, all types of Motorized Fork Lifts,
Riding Motor Buggy Operator, Bobcat Operator, Mortar
Man, Burners, Nozzle Man on Gunite work.

CLASS B: All laborers not listed in Class A or C.

CLASS C: Laborers doing Janitorial- type light clean up work
associated with the turnover of the project to the owner
All flagman, and those manning temporary heat of all
types.

LABO0472A 03/01/2002

Rates Fringes

MONMOUTH COUNTY

LABORERS (HEAVY AND HIGHWAY CONSTRUCTION):

GROUP 1	24.55	11.20+A
GROUP 2	24.75	11.20+A
GROUP 3	25.05	11.20+A
GROUP 4	25.25	11.20+A
GROUP 5	25.50	11.20+A
GROUP 6	29.05	11.20+A
GROUP 7a	27.55	11.20+A
Group 7b	25.55	11.20+A

LABORERS CLASSIFICATIONS (HEAVY & HIGHWAY)

GROUP 1: Common laborers, landscape laborers, railroad track laborers, flagmen, salamander tenders, pitman, dumpman, waterproofing laborers, rakers and tampers on cold patch work, and wrapping and coating of all pipes, & Asphalt Laborers.

GROUP 2: Powder carrier, magazine tender, signalman, asphalt raker, and asphalt screedman

GROUP 3: Sewer pipe, laser men, conduit and duct line layer, power tool operator, jack hammer, chipping hammer, pavement breaker, power buggy, concrete cutter, asphalt cutter, sheet hammer and tree cutter operators, sandblasting cutting, burning, power tool operator, and such other power tools used to perform work usually done manually by laborers.

GROUP 4: Wagon drill operator, timberman and drill master.

GROUP 5: Finisher, manhole, catch basin or inlet builder, form setter, rammer, paver, gunite nozzleman, and stone cutter

GROUP 6: Blaster.

Group 7a: Hazardous waste laborer required to wear level A,B, or C personal protection.

GROUP 7b: Certified laborer working a hazardous waste removal project or site at a task requiring hazardous waste related certification, but who is not working in a zone requiring level A,B, or C personal protection.

FOOTNOTE:

A. PAID HOLIDAYS: New Year's Day, Washington's Birthday, Memorial Day, Independence Day, Labor Day, Veteran's Day, Presidential Election Day, Thanksgiving Day, and Christmas Day provided the employee works 3 days for the same employer within a period of 10 working days consisting of 5 working days before and 5 working days after the day upon which the holiday falls or is observed

LABO0595A 05/01/2001

Rates Fringes

BURLINGTON (Remainder), MERCER, MONMOUTH, and OCEAN (Remainder)
COUNTIES:

LABORERS (BUILDING CONSTRUCTION):

CLASS A	22.45	11.25
CLASS B	21.95	11.25
CLASS C	18.66	11.25

LABORERS CLASSIFICATIONS (BUILDING CONSTRUCTION)

CLASS A: Jack Hammer; Tamper; Motorized Tampers and Compactors
 Street Cleaning Machines; Scaffold Builder; Hydro
 Demolition Equipment; All types of Motorized Fork Lifts;
 Riding Motor Buggy Operator; Bob Cat Operator; Mortar
 Man; Burners; Nozzle Man on gunite Work.

CLASS B: All Laborers not listed in Class A or C.

Class C Laborers doing Janitorial type light clean up
 associated with the turnover of the project or part of
 a project to the owner; All Flagman; and those manning
 temporary heat of all types.

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LABO1030A 04/01/2001

Rates Fringes

LABORERS: (The removal, abatement, enclosure and decontamination
 of personal protective equipment, chemical protective clothing
 and machinery relating to asbestos and/or toxic and hazardous
 waste of materials which shall include but not necessarily be
 limited to: the erection, moving, servicing and dismantling to
 all enclosures, scaffolding, barricades, and the operation of all
 tools and equipment normally used in the removal or abatement of
 asbesots and toxic and hazardous waste or materials, the
 labeling, bagging, cartoning, crating, or other packaging of
 materials for disposal; and the clean up of the work site and all
 other work incidental to the removal, abatement, encapsulation,
 enclosure, and decontamination of asbestos or toxic and hazardous
 waste materials; and in addition, all work tasks involved in the
 maintenance and operation of energy resource recover plants (co-
 generation plants).)

LABORERS 21.85 10.12

PAIN0252H 05/01/2001

Rates Fringes

ATLANTIC, CAMDEN, CAPE MAY, CUMBERLAND, GLOUCESTER, SALEM, and
 parts of BURLINGTON and OCEAN (everything south of these cities
 in Burlington and Ocean Counties-Florence to Bustleton to
 Columbus to Jobstown to Pemberton to Onga Hat to Chatsworth to
 Whiting to Pinewald to Ocean Gate to Seaside Heights) COUNTIES:

GLAZIERS 26.55 12.15

PAIN0711A 05/01/2000

Rates Fringes

ATLANTIC, BURLINGTON, CAMDEN, CAPE MAY, CUMBERLAND, GLOUCESTER,
 MONMOUTH, OCEAN, & SALEM COUNTIES:

PAINTING, PAPERHANGING & ALLIED WORK 28.75 2.54+27%

SPRAYING, SANDBLASTING, DIPPING,
POWER TOOLS (Over 115 volts) &
PAPERHANGING PASTING APPARATUS
WORK ON TANKS, BRIDGES, TOWERS,
STACKS, & OPEN STRUCTURAL STEEL,
WORK FROM CABLES & SWINGING SCAFFOLDS,
EXTERIOR WORK ABOVE THREE STORIES
31.25 2.54+27%

REPAINT WORK & PREPARATION THEREFORE
(including jobs where no major alterations
are taking place but excluding bridges,
stacks, elevated tanks & generating
stations) 22.00 2.54+27%

PAIN0711H 05/01/2000

Rates Fringes

MERCER COUNTY

PAINTERS:

New Construction and
Major Alterations 28.75 27%+2.55

Repaint Work 22.00 27%+2.55

Spraying or application of
Hazardous or Dangerous
Materials on Repaint Work 24.00 27%+2.55

Bridges, TV & Radio Towers,
Structural Steel & Tanks above 3
stories in height (30' or over),
Smoke Stacks, Water Towers, Sand-
Blasting, Steam Cleaning, Spraying,
or application of Hazardous
Materials 31.25 27%+2.55

Paperhanging 25.60 27%+2.55

PAIN0711J 08/01/1999

Rates Fringes

DRYWALL FINISHERS & TAPERS 28.25 11.23

PAIN0711K 05/01/2000

Rates Fringes

MERCER, MONMOUTH and parts of BURLINGTON AND OCEAN (everything
north of these cities in BURLINGTON and OCEAN COUNTIES Florence
to Bustleton to Columbus to Jobstown to Pemberton to Onge
Hat to Chatsworth to Whiting to Pinewald to Ocean Gate to

Seaside Heights) COUNTIES:

GLAZIERS:	28.75	10.30
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PLAS0008I 05/01/2001

	Rates	Fringes
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CAMDEN, GLOUCESTER and SALEM COUNTIES:

PLASTERERS	25.35	13.40
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PLAS0008L 11/01/2001

	Rates	Fringes
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ATLANTIC, BURLINGTON, CAPE MAY, CUMBERLAND, MERCER, MONMOUTH & OCEAN COUNTIES:

PLASTERERS	28.50	13.40
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PLAS0699A 05/01/2002

	Rates	Fringes
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CAMDEN, GLOUCESTER, AND SALEM COUNTIES

CEMENT MASONS	27.30	12.55
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PLUM0009I 03/01/2002

	Rates	Fringes
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AIR CONDITIONING & REFRIGERATION
MECHANICS

	25.16	9.24
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SCOPE OF WORK:

Installation of air conditioning and refrigeration equipment whose combined tonnage does not exceed 15 tons. Installation of water cooled air conditioning that does not exceed 10 tons (includes piping of component system and erection of water tower). Installation of air cooled air conditioning that does not exceed 15 tons. Installation of air conditioning equipment of the "Package-Unitary" rooftop type, the combined tonnage of which does not exceed 35 tons. Packaged Unitary Air Conditioning and Refrigeration Institute (ARI) as follows: "A unitary air conditioner consists of one or more cooling coil, and air moving device, a compressor and condenser combination, and may include a heating function as well". Any and all related piping to the above installation will be done under the appropriate trade jurisdiction.

PLUM0009J 07/01/2001

	Rates	Fringes
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BURLINGTON (from the town of Burlington City, to everything north along County Road Route 541 East also known as High Street, until it reaches the city of Mount Holly which is also Local 9

territory, Madison Avenue in Mount Holly to State Road Route 38

East, again everything north along State Road Route 38 East until its cross over, State Road Route 206 and becomes County Road Route 530, continuing on including Pemberton Boro to south on Magnolia Road in Pemberton Township to Magnolia New Lisbon Road (Route 545), to south on Mount Holly Misery Road to State Road Route 70 East to the Ocean County Line), MERCER, MONMOUTH, AND OCEAN COUNTIES:

PLUMBERS & PIPEFITTERS	33.13	15.25
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PLUM0322A 05/01/2001

Rates	Fringes
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ATLANTIC; BURLINGTON (Remainder) CAMDEN; CAPE MAY; CUMBERLAND; GLOUCESTER; AND SALEM COUNTIES

PLUMBERS/PIPEFITTERS	29.11	15.70
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ROOF0004A 06/01/1996

Rates	Fringes
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MONMOUTH COUNTY (Remainder), AND OCEAN (Remainder) COUNTIES

ROOFERS	24.22	11.75
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ROOF0030D 05/01/2002

Rates	Fringes
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ATLANTIC, BURLINGTON, CAMDEN, CAPE MAY, CUMBERLAND, GLOUCESTER, MERCER AND SALEM COUNTIES; and the following portions of MONMOUTH AND OCEAN COUNTIES: West of a line starting from the point on Route 70 where Burlington and Ocean Counties meet, Easterly along Route 70 to Route 571, along Route 571 to Cassville, Easterly on Route 528 to Van Hiseville, Northerly on Route 527 to Manalapan, Westerly on Route 33 to the Monmouth County Line

ROOFERS:

Shingle, slate and tile	19.25	6.17
All other work	26.00	13.05+A

FOOTNOTE:

A. PAID HOLIDAY: Election Day.

SF0669B 04/01/2002

Rates	Fringes
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ATLANTIC, BURLINGTON, CAPE MAY, CUMBERLAND, MERCER (Remainder), MONMOUTH, OCEAN, AND SALEM (Remainder) COUNTIES

SPRINKLER FITTERS	33.00	6.05
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SFNJ0692C 05/01/2001

Rates Fringes

CAMDEN, GLOUCESTER, MERCER (Town of Trenton), AND SALEM (Penns

Grove, excluding Penns Grove Airport) COUNTIES

SPRINKLER FITTERS	33.57	11.00
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SHEE0019M 05/01/2002

Rates Fringes

CAMDEN, GLOUCESTER, & SALEM COUNTIES:

SHEET METAL WORKER	30.68	17.90+H
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H-Election Day is a paid holiday.

SHEE0027B 06/01/2000

Rates Fringes

ATLANTIC, BURLINGTON, CAPE MAY, CUMBERLAND, MERCER, MONMOUTH AND OCEAN COUNTIES

SHEET METAL WORKERS	31.00	15.38
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SUNJ1002A 12/07/1993

Rates Fringes

MERCER COUNTY

CEMENT MASONS (BUILDING CONSTRUCTION ONLY)	19.60	8.83
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TEAM0331A 01/01/1998

Rates Fringes

ATLANTIC AND CAPE MAY COUNTIES

TRUCK DRIVERS:

GROUP 1	20.75	8.92+A
GROUP 2	20.90	8.92+A
GROUP 3	21.10	8.92+A
GROUP 4	21.25	8.92+A

FOOTNOTE:

- A. PAID HOLIDAYS: New Year's Day; Washington's Birthday; Memorial Day; Independence Day; Labor Day; Veteran's Day; Presidential Election Day; Thanksgiving Day; & Christmas Day; provided the employee works 3 days in the week in which the holiday falls.

TRUCK DRIVERS CLASSIFICATIONS

GROUP 1: Striaht Truck Driver,Dump Truck Driver,Water Truck Driver,Transit Mix Driver,Pickup Truck Driver,Tank Truck Driver

Track Truck Driver, Agitator Truck Driver, Concrete Mobile Unit Driver, Tringer Bead Truck Driver, Ross Carrier Driver, Warehouse Forklift Driver, A Frame Truck Driver, Gin Pole Truck Driver,

Form Truck Driver, Driver for Truck having Self Loading/Unloading Attachment, & Vacuum Truck/Trailer.

GROUP 2: Trucks Towing Driver

GROUP 3: Trailer Truck Driver, Winch Truck Driver, Off Road Dump Truck Driver, Fuel Truck Driver, Tractor Trailer (any trailer driver), Asphalt Oil Distributor Driver, & Off Road Water Truck Driver.

GROUP 4: Mechanics.

TEAM0469D 05/01/2000

Rates Fringes

BURLINGTON (Remainder), MERCER, MONMOUTH, AND OCEAN COUNTIES

TRUCK DRIVERS:

GROUP 1	26.35	11.835+A
GROUP 2	26.40	11.835+A
GROUP 3	26.50	11.835+A
GROUP 4	26.60	11.835+A

FOOTNOTE:

- A. Employees working or receiving pay for 80 days within a year receive one week's paid vacation (48 hours); 125 days receive two weeks' vacation (96 hours); 145 days receive 15 days (120 hours); 15 years seniority and 145 days receive 4 weeks vacation (160 hours).

PAID HOLIDAYS: New Year's Day; Washington's Birthday; Memorial Day; Independence Day; Labor Day; Columbus Day; Veteran's Day; General Election Day; Thanksgiving Day; and Christmas Day provided the employee has been assigned to work or "shapes" one day of the calendar week during which the holiday falls. Employee receives \$3.00 per hour premium pay for hazardous waste work.

TRUCK DRIVERS CLASSIFICATIONS

GROUP 1: Drivers on the following type vehicles: straight dumps, flats, floats, pick-ups, container haulers, fuel, water sprinkler, road oil, stringer, bead, hot pass, bus dumpcrete, transit mixers, agitator mixer, half truck, winch truck, side-0-matic, dynamite, power, x-ray, welding, skid, jeep, station wagon, stringer, A-frame, all dual purpose trucks, truck with mechanical tailgate, asphalt distributor, batch trucks, seeding, mulching, fertilizer, air compressor trucks (in transit), parts chaser, escort, scissor, Hi-lift, telescope, concrete breaker, gin pole, stone, sand, asphalt distributor and spreader, nipper, fuel trucks (drivers on fuel trucks, including handling of unit), skid truck (debris container - entire unit), concrete mobile trucks (entire unit), expeditor (parts chaser), beltcrete trucks, pumpcrete trucks, line truck, reel truck, wreckers, utility trucks, tank trucks, warehousemen, warehouse partsmen, yardmen,

lift truck in warehouse, warehouse clerk, parts man, material checkers, receivers shippers, binning men (materials cardex man); drivers on the following type vehicle: broyhill coal tar epoxy

trucks, little-ford bituminous distributor, slurry seal truck or vehicle, thiokol trackmaster pick-up (swamp cat pickup, bucket loader dump truck and any rubber-tired tractor used in pulling and towing farm wagons and trailers of any description, similar type vehicles); off-site and on-site repair shop, team drivers, vacuum or vac-all trucks (entire unit)

GROUP 2: Drivers on straight 3-axle materials; truck and floats

GROUP 3: Drivers on all euclid-type vehicles; euclids, international harvesters, wabcos, caterpillar, koehring, tractors, and wagons, dumptors, straight, bottom, rear and side dumps, carryalls and scrapers (not self-loading - loading over the top), water sprinkler, trailers, water pulls and similar types of vehicles; drivers on tractors and trailer type vehicles; flat, floats, I-beam, low beds, water sprinkler, bituminous transit mix, road oil, fuel bottom dump hopper, rear dump, office shanty, epoxy, asphalt, agitator mixer, mulching, stringer, seeding, fertilizing pole spread, bituminous distributor, water pulls (entire unit) (tractor trailer), reel trailer and similar types of vehicles

GROUP 4: Winch Trailer Drivers

* TEAM0676A 05/01/2002

Rates Fringes

BURLINGTON (Area West of the NJ Turnpike to the Delaware River),
CAMDEN, CUMBERLAND, GLOUCESTER AND SALEM COUNTIES

TRUCK DRIVERS:

GROUP 1	22.50	10.7375+A+B
GROUP 2	22.55	10.7375+A+B
GROUP 3	22.70	10.7375+A+B
GROUP 4	22.90	10.7375+A+B
GROUP 5	23.05	10.7375+A+B
GROUP 6	*	10.7375+A+B

FOOTNOTES:

- A. Employee who has worked or received pay for 90 days within a year prior to his anniversary date shall receive 56 hours straight time vacation pay; for 3 years but less than 8 years of service he will receive 100 hours of straight time vacation pay; 15 years or more he will receive 165 hours of straight time vacation pay.
- B. PAID HOLIDAYS: New Year's Day, Memorial Day, Independence Day, Labor Day, Veteran's Day, Presidential Election Day, Thanksgiving Day, Christmas Day, and two personal holidays, Good Friday, and Christmas Eve afternoon (provided employee works that morning) on the condition that the employee works or is

available for work on at least two days in the week in which the holiday occurs.

TRUCK DRIVERS CLASSIFICATIONS

GROUP 1: Warehouseman

GROUP 2: Dump truck, water truck, transit mix, pickup, tank, track, agitator, concrete mobile unit, dytiner bead, tack rig, ross carrier, warehouse forklift, A-frame, gin pole form truck, truck having self-loading/unloading attachment, straight

GROUP 3: Truckstowing

GROUP 4: Trailer winch off road dump, fuel, tractor trailer, asphalt oil distributor, off road water truck

GROUP 5: Mechanics

*GROUP 6: Truck drivers, on hazardous waste removal work on a state or federally designated hazardous waste site where the truck driver is in direct contact with hazardous materials and when personal protective equipment is required for respiratory, skin and eye protection the teamster shall receive \$2.25 per hour in addition to the regular rate of pay including overtime pay.

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29 CFR 5.5(a)(1)(ii)).

In the listing above, the "SU" designation means that rates listed under that identifier do not reflect collectively bargained wage and fringe benefit rates. Other designations indicate unions whose rates have been determined to be prevailing.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U. S. Department of Labor
200 Constitution Avenue, N. W.
Washington, D. C. 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N. W.
Washington, D. C. 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U. S. Department of Labor
200 Constitution Avenue, N. W.
Washington, D. C. 20210

4.) All decisions by the Administrative Review Board are final.

END OF GENERAL DECISION

SECTION 02821A

FENCING
02/02

PART 1 GENERAL

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by basic designation only.

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

ASTM A 116	(2000) Metallic-Coated, Steel Woven Wire Fence Fabric
ASTM A 121	(1999) Zinc-Coated (Galvanized) Steel Barbed Wire
ASTM A 153/A 153M	(2001) Zinc Coating (Hot-Dip) on Iron and Steel Hardware
ASTM A 176	(1999) Stainless and Heat-Resisting Chromium Steel Plate, Sheet, and Strip
ASTM A 392	(1996) Zinc-Coated Steel Chain-Link Fence Fabric
ASTM A 478	(1997) Chromium-Nickel Stainless Steel Weaving and Knitting Wire
ASTM A 491	(1996) Aluminum-Coated Steel Chain-Link Fence Fabric
ASTM A 585	(1997) Aluminum-Coated Steel Barbed Wire
ASTM A 666	(2000) Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar
ASTM A 702	(1989; R 1994e1) Steel Fence Posts and Assemblies, Hot Wrought
ASTM A 780	(2000) Repair of Damaged and Uncoated Areas of Hot-Dipped Galvanized Coatings
ASTM A 824	(1995) Metallic-Coated Steel Marcellled Tension Wire for Use With Chain Link Fence
ASTM C 94/C 94M	(2000e2) Ready-Mixed Concrete
ASTM D 4541	(1995e1) Pull-Off Strength of Coatings Using Portable Adhesion Testers

ASTM F 1043	(2000) Strength and Protective Coatings on Metal Industrial Chain-Link Fence Framework
ASTM F 1083	(1997) Specification for Pipe, Steel, Hot-Dipped Zinc-Coated (Galvanized) Welded, for Fence Structures
ASTM F 1184	(1994) Industrial and Commercial Horizontal Slide Gates
ASTM F 626	(1996a) Fence Fittings
ASTM F 668	(1999a) Poly(Vinyl Chloride) (PVC)-Coated Steel Chain-Link Fence Fabric
ASTM F 883	(1997) Padlocks
ASTM F 900	(1994) Industrial and Commercial Swing Gates
ASTM G 23	(1996) Operating Light-Exposure Apparatus (Carbon-Arc Type) With and Without Water for Exposure of Nonmetallic Materials
ASTM G 26	(1996) Operating Light-Exposure Apparatus (Xenon-Arc Type) With and Without Water for Exposure of Nonmetallic Materials
ASTM G 53	(1996) Operating Light- and Water-Exposure Apparatus (Fluorescent UV-Condensation Type) for Exposure of Nonmetallic Materials

AMERICAN WOOD-PRESERVERS' ASSOCIATION (AWPA)

AWPA C1	(2000) All Timber Products - Preservative Treatment by Pressure Processes
AWPA C4	(1999) Poles - Preservative Treatment by Pressure Processes

1.2 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government. The following shall be submitted in accordance with Section 01330 SUBMITTAL PROCEDURES:

SD-07 Certificates

Chain Link Fence; ~~_____~~ G , ~~_____~~

Statement, signed by an official authorized to certify on behalf of the manufacturer, attesting that the chain link fence and component materials meet the specified requirements.

~~SD-10 Operation and Maintenance Data~~

~~Electro-Mechanical Locks; []G, []~~
~~Gate Operator; []G, []~~

~~[Six] [] copies of operating and maintenance instructions, a minimum of 2 weeks prior to field training. Operating instructions shall outline the step-by-step procedures required for system startup, operation, and shutdown. The instructions shall include the manufacturer's name, model number, service manual, parts list, and brief description of all equipment and their basic operating features. Maintenance instructions shall include routine maintenance procedures, possible breakdowns and repairs, and troubleshooting guide. The instructions shall include the general gate layout, equipment layout and simplified wiring and control diagrams of the system as installed.~~

1.3 APPROVAL OF POLYVINYL CHLORIDE-COATED FENCE MATERIALS

Polyvinyl chloride-coated fence materials shall be thoroughly inspected for cracking, peeling, and conformance with the specifications by the Contracting Officer's Representative prior to installation. Any fence materials rejected by the Contracting Officer's Representative shall be replaced by the contractor with approved materials at no additional cost to the Government.]

PART 2 PRODUCTS

2.1 FENCE FABRIC

Fence fabric shall conform to the following:

2.1.1 Chain Link Fence Fabric

[ASTM A 392, [Class 1] [Class 2], zinc-coated steel wire with minimum coating weight of [370] [610] grams of zinc per square meter of coated surface, or ASTM A 491, Type I, aluminum-coated steel wire.] [Class 2b polyvinyl chloride-coated steel fabric with 92 grams of zinc coating per square meter in accordance with ASTM F 668.] Fabric shall be fabricated of 9 gauge wire woven in 50 mm mesh. [Polyvinyl chloride coating for fabric and all other fence components shall be manufacturer's standard [] in color.] Fabric height shall be [[1.8] [2.1] m] [[] meters] [as shown]. Fabric shall be twisted and barbed on the top selvage and knuckled on the bottom selvage.

2.1.2 Woven Wire

Woven wire shall conform to ASTM A 116 [No. 9 farm] [No. 12-1/2 close mesh] [No. 14-1/2 wolf-proof] [No. 13 poultry and garden] [No. 14-1/2 chick] fence; grade, size as indicated.

2.2 GATES

ASTM F 900 and/or ASTM F 1184. Gate shall be the type and swing shown. Gate frames shall conform to strength and coating requirements of ASTM F 1083 for Group IA, steel pipe, with external coating Type A, nominal pipe size (NPS) 1-1/2. Gate frames shall conform to strength and coating requirements of ASTM F 1043, for Group IC, steel pipe with external coating

Type A or Type B, nominal pipe size (NPS) 1-1/2. [Gate frames shall be polyvinyl chloride-coated steel pipe (Group IA)(Group IC) with external coating Type A, a nominal pipe size (NPS) 1-1/2, conforming to ASTM F 1043.] Gate fabric shall be as specified for chain link fabric. Gate leaves more than 2.44 m wide shall have either intermediate members and diagonal truss rods or shall have tubular members as necessary to provide rigid construction, free from sag or twist. Gate leaves less than 2.44 m wide shall have truss rods or intermediate braces. Intermediate braces shall be provided on all gate frames with an electro-mechanical lock. Gate fabric shall be attached to the gate frame by method standard with the manufacturer except that welding will not be permitted. Latches, hinges, stops, keepers, rollers, and other hardware items shall be furnished as required for the operation of the gate. Latches shall be arranged for padlocking so that the padlock will be accessible from both sides of the gate. Stops shall be provided for holding the gates in the open position. For high security applications, each end member of gate frames shall be extended sufficiently above the top member to carry three strands of barbed wire in horizontal alignment with barbed wire strands on the fence.

2.3 POSTS

2.3.1 Metal Posts for Chain Link Fence

ASTM F 1083, zinc-coated. Group IA, with external coating Type A steel pipe. Group IC steel pipe, zinc-coated with external coating Type A or Type B and Group II, roll-formed steel sections, shall meet the strength and coating requirements of ASTM F 1043. Group III, ASTM F 1043 steel H-section may be used for line posts in lieu of line post shapes specified for the other classes. [Post shall be either Group IA steel pipe, Group IC, Group II, roll-formed steel sections, or Group III steel H-sections and shall be zinc coated (Type A) and polyvinyl chloride coated conforming to the requirements of ASTM F 1043.] Sizes shall be as shown on the drawings. Line posts and terminal (corner, gate, and pull) posts selected shall be of the same designation throughout the fence. Gate post shall be for the gate type specified subject to the limitation specified in ASTM F 900 and/or ASTM F 1184.

~~2.3.2 Metal Posts for Farm Style Fence~~

~~Metal posts shall conform to ASTM A 702 zinc-coated, [T-section] [U-Section]; length as indicated. Accessories shall conform to ASTM A 702.~~

~~2.3.3 Composite Polyester Resin Reinforced Line Posts~~

~~Polyester resin reinforced line posts shall be produced from unsaturated polyester resin reinforced with E-glass. Posts shall be filled with an appropriate filler material to form a rigid structural support member. The post shall meet the strength requirements of ASTM F 1043 for heavy industrial fencing. Posts shall be protected from UV and moisture degradation by a protective veil impregnated with resin (0.2 to 0.3 mm minimum) and an acrylic based (0.05 mm minimum) coating system. Posts shall exhibit corrosion and ultraviolet resistance as demonstrated when exposed to accelerated environmental test chamber for not less than 3,600 hours. The post shall show no structural failure (i.e., less than 10% loss of strength) as a result of exposure to moisture and lamps required in ASTM G 23, ASTM G 26 and ASTM G 53. Post coating system strength shall be tested in accordance with ASTM D 4541 for 90% adhesion strength. Posts shall be~~

~~[green] [black] [brown] in color. Provide outside diameter as specified in ASTM F 1043 for round steel pipe.~~

~~2.3.4 Wood Posts~~

~~Wood posts shall be cut from sound and solid trees free from short or reverse bends in more than one plane. Tops shall be convex rounded or inclined. Posts shall be free of ring shake, season cracks more than 6 mm wide, splits in the end, and unsound knots. Size and shape of posts shall be as indicated. Posts shall be treated in accordance with AWP A C1 or AWP A C4 as applicable.~~

2.4 BRACES AND RAILS

ASTM F 1083, zinc-coated, Group IA, steel pipe, size NPS 1-1/4. Group IC steel pipe, zinc-coated, shall meet the strength and coating requirements of ASTM F 1043. [Braces and rails shall be [Group IA] [Group IC], steel pipe, size NPS 1-1/4 or Group II, formed steel sections, size 42 mm (1-21/32 inch) and shall be zinc coated (Type A) and polyvinyl chloride-coated conforming to the requirements of ASTM F 1043.] Group II, formed steel sections, size 42 mm (1-21/32 inch), conforming to ASTM F 1043, may be used as braces and rails if Group II line posts are furnished.

2.5 WIRE

2.5.1 Tension Wire

Tension wire shall be Type I or Type II, Class 2 coating, in accordance with ASTM A 824.

2.5.2 Barbed Wire for Farm Style Fence

Barbed wire shall conform to ASTM A 121 [uncoated] [zinc-coated] [copper-coated], class 1, 13 gauge wire with 13-1/2 gauge 4-point barbs spaced no more than 150 mm apart.

2.6 ACCESSORIES

ASTM F 626. Ferrous accessories shall be zinc or aluminum coated. [Ferrous accessories shall also be polyvinyl chloride-coated, minimum thickness of 0.152 mm, maximum thickness of 0.381 mm. Color coating of fittings shall match the color coating of the fabric.] Truss rods shall be furnished for each terminal post. Truss rods shall be provided with turnbuckles or other equivalent provisions for adjustment. Barbed wire shall be 2 strand, 12-1/2 gauge wire, zinc-coated, Class 3 in accordance with ASTM A 121 or aluminum coated Type I in accordance with ASTM A 585. Barbed wire shall be four-point barbed type steel wire. Barbed wire support arms shall be the [single] [V] arm type and of the design required for the post furnished. Tie wire for attaching fabric to rails, braces, and posts shall be 9 gauge steel wire and match the coating of the fence fabric. [Tie wires for attaching fabric to tension wire on high security fences shall be 1.6 mm stainless steel. The tie wires shall be a double loop and 165 mm (6.5 inches) in length.] Miscellaneous hardware coatings shall conform to ASTM A 153/A 153M unless modified. [Threaded hardware shall be painted to match polyvinyl chloride coatings.]

~~2.7 BARBED TAPE~~

~~Reinforced barbed tape, [double coil] [single coil], for fence toppings shall be fabricated from 430 series stainless steel with a hardness range of Rockwell (30N) 37-45 conforming to the requirements of ASTM A 176. The stainless steel strip shall be 0.6 mm thick by 25 mm wide before fabrication. Each barb shall be a minimum of 30.5 mm (1.2 inch) in length, in groups of 4, spaced on 102 mm (4 inch) centers. The stainless steel core wire shall have a 2.5 mm (0.098 inch) diameter with a minimum tensile strength of 9.68 MPa (140 psi) and shall be in accordance with ASTM A 478. [Reinforced barbed tape, single coil, for ground application shall meet the above requirements.] [Non-reinforced barbed tape, single coil, for ground applications shall be fabricated from 301 series stainless steel, with a hardness range of Rockwell (30N) 50-55, in accordance with ASTM A 666. The stainless steel strip shall be 0.6 mm thick by 31 mm wide before fabrication. Each barb shall be a minimum of 30.5 mm (1.2 inch) in length, in groups of 4, spaced on 102 mm (4 inch) centers.] Sixteen gauge stainless steel twistable wire ties shall be used for attaching the barbed tape to the barbed wire [and to the fence for ground application].~~

2.8 CONCRETE

ASTM C 94/C 94M, using 19 mm maximum size aggregate, and having minimum compressive strength of 21 MPa at 28 days. Grout shall consist of one part portland cement to three parts clean, well-graded sand and the minimum amount of water to produce a workable mix.

2.9 PADLOCKS

Padlocks shall conform to ASTM F 883, Type <TAI OPT=CHAIN LINK FENCE>[P01] [____], Option[s] [A, B, and G] [____] [and] [____], Grade [6] [____].[EPB], Size 44 mm (1-3/4 inch). [All padlocks shall be keyed alike]. [All padlocks shall be keyed into master key system as specified in Section 08710 DOOR HARDWARE].

~~2.10 GATE OPERATOR~~

~~Electric gate operators for sliding gates shall be as follows: Electrical gate operators shall have a right angle gearhead instantly reversing motor with magnetic drum type brake, friction disc clutch, reversing starter with thermal overload protection, and a chain-driven geared rotary type automatic limit switch. Gears shall consist of a hardened steel machine cut worm and mating bronze gear. All gears and bearings shall operate in a bath of oil. Gate operators with V-belt pulleys will not be allowed. Gate operators shall be equipped with an emergency release to allow the gate to be operated manually. The emergency release mechanism shall be capable of being locked in the engaged or disengaged position. Positive stops shall be provided on the gate tracks as a backup to the limit switches.~~

~~2.11 ELECTRO-MECHANICAL LOCKS~~

~~Electro-mechanical locking devices for sliding gates and personnel gates shall be solenoid actuated such that the deadbolt retracts when the solenoid is energized and remains electrically retracted until the gate is closed. The solenoid shall be the continuous duty type, rated for 120V ac, 60Hz operation. The locking device shall be unlockable by key and shall be keyed on both sides. Status of the electro-mechanical lock shall be monitored by~~

~~two limit switches (integral to the locking device) wired in series. One switch shall monitor the deadlock lever and the other switch shall monitor the locking tongue.~~

PART 3 EXECUTION

3.1 INSTALLATION

Fence shall be installed to the lines and grades indicated. The area on either side of the fence line shall be cleared to the extent indicated. Line posts shall be spaced equidistant at intervals not exceeding 3 m (10 feet). Terminal (corner, gate, and pull) posts shall be set at abrupt changes in vertical and horizontal alignment. Fabric shall be continuous between terminal posts; however, runs between terminal posts shall not exceed 152.4 m (500 feet). Any damage to galvanized surfaces, including welding, shall be repaired with paint containing zinc dust in accordance with [ASTM A 780](#).

3.2 EXCAVATION

Post holes shall be cleared of loose material. Waste material shall be spread where directed. The ground surface irregularities along the fence line shall be eliminated to the extent necessary to maintain a [25][50] mm clearance between the bottom of the fabric and finish grade.

3.3 POST INSTALLATION

3.3.1 Posts for Chain Link Fence

Posts shall be set plumb and in alignment. Except where solid rock is encountered, posts shall be set in concrete to the depth indicated on the drawings. Where solid rock is encountered with no overburden, posts shall be set to a minimum depth of 457 mm (18 inches) in rock. Where solid rock is covered with an overburden of soil or loose rock, posts shall be set to the minimum depth indicated on the drawing unless a penetration of 457 mm (18 inches) in solid rock is achieved before reaching the indicated depth, in which case depth of penetration shall terminate. All portions of posts set in rock shall be grouted. Portions of posts not set in rock shall be set in concrete from the rock to ground level. Posts set in concrete shall be set in holes not less than the diameter shown on the drawings. Diameters of holes in solid rock shall be at least 25 mm (1 inch) greater than the largest cross section of the post. Concrete and grout shall be thoroughly consolidated around each post, shall be free of voids and finished to form a dome. Concrete and grout shall be allowed to cure for 72 hours prior to attachment of any item to the posts. Group II line posts may be mechanically driven, for temporary fence construction only, if rock is not encountered. Driven posts shall be set to a minimum depth of 914 mm (3 feet) and shall be protected with drive caps when being set. For high security fences, fence post rigidity shall be tested by applying a 222.4 newtons (50 pound) force on the post, perpendicular to the fabric, at 1.52 m (5 feet) above ground; post movement measured at the point where the force is applied shall be less than or equal to 19 mm (3/4 inch) from the relaxed position; every tenth post shall be tested for rigidity; when a post fails this test, further tests on the next four posts on either side of the failed post shall be made; all failed posts shall be removed, replaced, and retested at the Contractor's expense.

~~3.3.2 Posts for Farm Style Fence~~

~~For wood posts, the Contractor shall excavate to depth indicated and brace post until backfill is completed. Backfill shall be placed in layers of 229 mm or less, moistened to optimum condition, and compacted with hand tampers or other approved method. Posts shall be set plumb and in proper alignment. Metal posts shall be driven or set in concrete as indicated.~~

3.4 RAILS

3.4.1 Top Rail

Top rail shall be supported at each post to form a continuous brace between terminal posts. Where required, sections of top rail shall be joined using sleeves or couplings that will allow expansion or contraction of the rail. Top rail, if required for high security fence, shall be installed as indicated on the drawings.

3.4.2 Bottom Rail

The bottom rail shall be bolted to double rail ends and double rail ends shall be securely fastened to the posts. Bolts shall be peened to prevent easy removal. Bottom rail shall be installed before chain link fabric.

3.5 BRACES AND TRUSS RODS

Braces and truss rods shall be installed as indicated and in conformance with the standard practice for the fence furnished. Horizontal (compression) braces and diagonal truss (tension) rods shall be installed on fences over 1.83 m (6 feet) in height. A center brace or 2 diagonal truss rods shall be installed on 3.66 m (12 foot) fences. Braces and truss rods shall extend from terminal posts to line posts. Diagonal braces shall form an angle of approximately 40 to 50 degrees with the horizontal. No bracing is required on fences 1.83 m (6 feet) high or less if a top rail is installed.

3.6 TENSION WIRES

Tension wires shall be installed along the [top and] [bottom] of the fence line and attached to the terminal posts of each stretch of the fence. Top tension wires shall be installed within the top [305] [102] mm of the installed fabric. Bottom tension wire shall be installed within the bottom 152 mm (6 inches) of the installed fabric. Tension wire shall be pulled taut and shall be free of sag.

3.7 CHAIN LINK FABRIC

Chain link fabric shall be installed on the side of the post indicated. Fabric shall be attached to terminal posts with stretcher bars and tension bands. Bands shall be spaced at approximately 381 mm (15 inch) intervals. The fabric shall be installed and pulled taut to provide a smooth and uniform appearance free from sag, without permanently distorting the fabric diamond or reducing the fabric height. Fabric shall be fastened to line posts at approximately 381 mm (15 inch) intervals and fastened to all rails and tension wires at approximately [610] [305] mm intervals. Fabric shall be cut by untwisting and removing pickets. Splicing shall be accomplished by weaving a single picket into the ends of the rolls to be joined. The

bottom of the installed fabric shall be [50] [25] mm plus or minus 13 mm above the ground. For high security fence, after the fabric installation is complete, the fabric shall be exercised by applying a 222 newtons (50 pound) push-pull force at the center of the fabric between posts; the use of a 133 newtons (30 pound) pull at the center of the panel shall cause fabric deflection of not more than 63.5 mm (2-1/2 inches) when pulling fabric from the post side of the fence; every second fence panel shall meet this requirement; all failed panels shall be resecured and retested at the Contractor's expense.

3.8 BARBED WIRE SUPPORTING ARMS AND BARBED WIRE

3.8.1 General Requirements

Barbed wire supporting arms and barbed wire shall be installed as indicated and as recommended by the manufacturer. Supporting arms shall be anchored [to the posts in a manner to prevent easy removal with hand tools] [with 9.5 mm (3/8 inch) diameter plain pin rivets or, at the Contractor's option, with studs driven by low-velocity explosive-actuated tools for steel, wrought iron, ductile iron, or malleable iron. Studs driven by an explosive-actuated tool shall not be used with gray iron or other material that can be fractured. A minimum of two studs per support arm shall be used.] Barbed wire shall be pulled taut and attached to the arms with clips or other means that will prevent easy removal.

~~3.8.2 Barbed Wire for Farm Style Fence~~

~~Wire shall be installed on the side of the post indicated. Wire shall be pulled taut to provide a smooth uniform appearance, free from sag. Wire shall be fastened to line posts at approximately 381 mm intervals unless indicated otherwise.~~

3.9 GATE INSTALLATION

Gates shall be installed at the locations shown. Hinged gates shall be mounted to swing as indicated. Latches, stops, and keepers shall be installed as required. [Slide] [Lift] gates shall be installed as recommended by the manufacturer. Padlocks shall be attached to gates or gate posts with chains. Hinge pins, and hardware shall be welded or otherwise secured to prevent removal. ~~For farm style fencing, standard metal gate assemblies with frame and fittings necessary for complete installation or wood gates shall be furnished as shown.~~

~~3.10 BARBED TAPE INSTALLATION~~

~~Stainless steel reinforced barbed tape shall be installed as detailed on the drawings. Barbed tape shall be stretched out to its manufacturer's recommended length, set on top of the barbed wire and "V" shaped support arms, and then secured to the barbed wire. The barbed tape shall be secured to the barbed wire at the two points and at every spiral turn of both coils as shown on the drawings. Stainless steel [reinforced] [non-reinforced] barbed tape for ground applications shall be installed [per manufacturer's recommendations] [as shown on the drawings].~~

~~3.11 GROUNDING~~

~~[Fences crossed by overhead powerlines in excess of 600 volts shall be grounded as specified in Section 13100A LIGHTNING PROTECTION SYSTEM. Electrical equipment attached to the fence shall be grounded as specified in [Section 16370A ELECTRICAL DISTRIBUTION SYSTEM, AERIAL] [Section 16375A ELECTRICAL DISTRIBUTION SYSTEM, UNDERGROUND].] [Fences shall be grounded on each side of all gates, at each corner, at the closest approach to each building located within 15 m of the fence, and where the fence alignment changes more than 15 degrees. Grounding locations shall not exceed 198 m. Each gate panel shall be bonded with a flexible bond strap to its gate post. Fences crossed by powerlines of 600 volts or more shall be grounded at or near the point of crossing and at distances not exceeding 45 m on each side of crossing. Ground conductor shall consist of No. 8 AWC solid copper wire. Grounding electrodes shall be 19 mm (3/4 inch) by 3.05 m (10 foot) long copper-clad steel rod. Electrodes shall be driven into the earth so that the top of the electrode is at least 152 mm (6 inches) below the grade. Where driving is impracticable, electrodes shall be buried a minimum of 305 mm deep and radially from the fence. The top of the electrode shall be not less than 610 mm or more than 2.4 m from the fence. Ground conductor shall be clamped to the fence and electrodes with bronze grounding clamps to create electrical continuity between fence posts, fence fabric, and ground rods. After installation the total resistance of fence to ground shall not be greater than 25 ohms.]~~

-- End Of Section --